

Postdoctoral Scientist - Organisms and Ecosystems

Ksenia Krasileva's Group at the Earlham Institute and The Sainsbury Laboratory, Norwich Research Park focuses on understanding how plant immune receptors function and apply this knowledge to benefit agriculture. The Lab was recently awarded a **European Research Council (ERC)** Award to address these questions over the next five years. The project centers on recent exciting discovery that a significant number of plant immune receptors carry unconventional integrated domains that appear to function in pathogen detection (Sarris et al. 2016). Our approach combines computational and evolutionary biology with functional analyses.

We are seeking skilled and motivated postdoctoral scientist to join our team on the following projects:

(1) Evolutionary analyses of NLR plant immune receptors (at the Earlham Institute).

Candidates must have a PhD degree with background in molecular evolution and bioinformatics. We are looking for a candidate skilled in extensive bioinformatics expertise on next generation sequencing data analyses as well as large scale molecular evolution analyses, desire to solve complex puzzles using genomic data and interest in understanding evolution of immune systems.

Applicants should provide a CV, including the names and contact details of three referees, and a covering letter addressing the selection criteria. Further details and application procedure for the EI position are here:

<http://jobs.earlham.ac.uk/Details.asp?vacancyID=11902> (reference 1003103).

Salary on appointment will be within the range £30,750 to £37,750 per annum depending on qualifications and experience.

(2) Functional analyses of novel NLR-ID plant immune receptors towards understanding and modifying recognition specificities (at The Sainsbury Laboratory).

Candidates must have a PhD degree with background in molecular genetics and biochemistry, interest in protein evolution, structure-function analyses, immunology and protein engineering.

Applicants should provide a CV, including the names and contact details of three referees, and a covering letter addressing the selection criteria. Further details and application procedure for the TSL position are here:

<http://www.tsl.ac.uk/opportunities/post-doctoral-position-available-work-functional-analyses-novel-nlr-id-plant-immune-receptors/>.

Salary on appointment will be within the range £32,004 - £38,183 per annum depending on qualifications and experience.

Priority will be given to postdocs who have identified independent funding sources that they are eligible for and are willing to apply.

The expected starting date for both positions is January 2017. The posts are initially for 2 years but can be extended based on performance.

Applications will be reviewed from 1st of November, and will continue until the position is filled. General questions could be addressed to Ksenia.Krasileva@earlham.ac.uk.

The Earlham Institute (EI) is a world-leading research institute focusing on the development of genomics and computational biology. EI receives strategic support from BBSRC to ensure that biological science in the UK has access to a skill base in genomics technologies and bioinformatics to deliver programmes leading to improved food security, advances in industrial biotechnology and improved human health and wellbeing. EI offers a state of the art DNA sequencing facility, unique by its operation of multiple complementary technologies for data generation. The Institute is a UK hub for innovative bioinformatics through research, analysis and interpretation of multiple, complex data sets. It hosts one of the largest computing hardware facilities dedicated to life science research in Europe.
www.earlham.ac.uk.

The Sainsbury Laboratory (TSL) is a world-leading research centre focusing on making fundamental discoveries in molecular plant-microbe interactions and on developing durable solutions for disease control. The Laboratory hosts state of the art proteomics, bioinformatics, microscopy and plant transformation facilities. TSL receives strategic support from the Gatsby Charitable Foundation.
www.tsl.ac.uk.

As a user of the disability symbol, we guarantee to interview all disabled applicants who meet the minimum essential criteria for this vacancy.

The closing date for applications will be 2nd November 2016.